Selection of Agency for providing Services for Drone Survey Based 3D Model Generation for BDA Area (Excluding BBMP Area) – Clarifications issued for the queries raised during Pre–bid Meeting held at 11.00 am on 5.6.2024 at the Office of BDA.

Sl. No.	Ref. No. in TD	Particulars in TD	Queries/ Issues raised	Clarifications
1	Sec.1 Project Data Sheet Clause 6(b)	EMD: Rs.2,00,000/-. Payment only through e-payment modes as specified in e-Portal	Allow waiver of EMD for MSME bidders as per Ministry of Finance Notification.	Noted. Exemption from EMD for MSME is allowed only for the tender of goods as per FD, GoK Notification.
2	Sec.1 Project Data Sheet Clause 6(b)	EMD: Rs.2,00,000/-. Payment only through e-payment modes as specified in e-Portal.	It is requested to accept the EMD in the form Bank Guarantee.	Not Agreed. Tender condition prevails.
3	Sec.1 Project Data Sheet Clause 6(b)	EMD: Rs.2,00,000/-. Payment only through e-payment modes as specified in e-Portal.	As per the EMD the estimated cost of project seems to be Rs.1 Cr which looks very less for the required solution.	There is no link between EMD and the estimated cost in case of service tenders.
4	Sec.2 ITB Clause 9	The quantities of the deliverables may be increased or decreased up to 10% of the total area even after the finalization of the rate of the successful bidder without change in payment. The successful bidder shall provide services without additional cost for such increased or decreased quantities (10% of the total area) that may	This statement seems to be confusing for the vendors of additional 10% which will impact the cost estimation from one vendor to another. Hence requested to clearly define the AOI with 10% additional along with 50 mtr. buffer for the project area for fair participation.	Modified as The authority reserves the right to increase the quantity up to 25% of the total area for which additional payment will be made on a pro-rata basis (in terms of cost per Sq.km). The successful bidder shall supply/provide services for any additional quantities of deliverables at the same price for a period

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		be finalized. Further the successful bidder shall supply/provide services for any additional quantities of deliverables at the same price for a period of one year for BDA. The authority reserves the right to increase the quantity up to 15% (**Over and above 10%**) for which additional payment will be made on a pro-rata basis (in terms of cost per Sq.km).		of one year for BDA. The total quantity of the area to be cover is 642 sqkm Area of Interest Shape file is attached
5	Sec.2 ITB Clause 14 (i)	The award of the contract will be given to the Agency quoted Lease (L1)	Request to consider QCBS so as to improve the quality of bid.	Not Agreed. Tender condition prevails.
6	Sec.2 Clause 15	Opening of the Financial Offer will be preceded by the evaluation of the Technical Proposal, vis-à-vis the capability, capacity, and credibility standing of the bidder. Evaluation of the Technical Proposal will be done by the Technical Evaluation Committee constituted for the purpose. After the demo is completed, those vendors who are technically qualified will be notified and	Request to share the demo parameters with marks for technical qualification for transparent evaluation process	Noted. At the first instance eligibility criteria of bidders will be examined. Eligible bidders will be invited to make a Demo. The Evaluation Committee will evaluate the Demo and finalize technical evaluation. In the demo bidder shall capture 2 sqkm area within the AoI and submit the deliverables as per the specifications given in the RFP for evaluation purpose.

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		the financial bid of those bidders only will be opened.		
7	Sec.2 ITB Clause 18	The bidder has to furnish Performance Bank Guarantee @ 10% of the total work order throughout the project and warranty periods within one week of signing the contract.	Request to reduce the Performance Bank Guarantee @ 5%.	Not Agreed. Tender condition prevails.
8	Sec.2 ITB Clause 23 (6)	The bidder should have a minimum average annual financial turnover of Rs.1 crore related from the drone survey, GPS survey-related activities in the last three completed financial years i.e., 2020-21, 2021-22 and 2022-23.	It is requested to consider assignments related to Drone Survey and GPS Survey for the purpose of turnover.	Agreed. Assignments directly related to Drone Survey and GPS Survey will be considered for the turnover.
9	Sec.2 ITB Clause 23 Sl.No.9	Bidder shall submit proof of experiencefor completion of atleast **two** projects using drone survey to any of the State / Central Government / Government Undertakings / Private Sector/International Agencies with a minimum order of Rs. 50 lakhs each in the last 3 yrs.	It is requested to specify at least one project for eligibility criteria to accommodate more bidders. Requested to consider the experiences of similar nature aerial surveys as well.	Not Agreed. Tender condition prevails.
10	Sec.2 ITB Clause 23 (10)	Professional survey grade PPK enabled UAS/Drone – Bidder must have a minimum of 4 nos. of Professional survey grade PPK enabled	It is requested to reduce the required number to 3 UAV/Drones, provided they are DGCA approved and type-certified or	Noted. Out of 4 UAV/Drones min. 2 shall be owned by the bidder. Remaining UAV/Drone may be procured on lease basis subject to condition that proper lease

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		UAS/Drone with associated oblique camera for achieving at least 03 cm GSD at the time of submission of a bid. Drones should have compliance with DGCA Drone Rules, 2021.	to Permit the inclusion of one UAV/Drone on a lease basis to meet the requirement.	document to be submitted along with technical proposal.
11	Sec.2 Clause 23 Sl.No.10	Bidder must have a minimum of 4 nos. of Professional survey grade PPK enabled UAS/Drone with associated oblique camera for achieving at least 03 cm GSD....	Please confirm if airborne sensor with oblique cameras can be proposed as an alternative.	Not Agreed. Tender condition prevails.
12	Sec.2 ITB Clause 23 Sl.No.11	GNSS Receiver The Bidder must have a minimum of 8 nos. of Dual frequency GPS instruments Capable of tracking and logging Multi-frequency & multi-constellation signals	It is requested to revise the Clause as below: The Bidder must have a minimum of 8 nos. of Dual frequency DGPS or GPS instruments Capable of tracking and logging Multi-frequency & multi-constellation signals	Not Agreed. Tender condition prevails.
13	Sec.6 Scope of Work Clause 6.1	Bengaluru Development Authority (BDA) is engaged in orderly development of Area coming under its jurisdiction. BDA is planning to generate Base Map and Land use Land Cover Map based on Drone survey-based Ortho Rectified Images and Digital Elevation Models for the preparation of BDA Master Plan.	Base Map and land use land cover map are not mentioned in the deliverable list – please clarify	Base Map and land use land cover map preparation are not the part of scope of work.

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14	Sec.6 Scope of Work Clause 6.3	Drone survey will be carried out for the BDA Area (excluding BBMP) covering 440 sq. kms. Shape file of the area to be covered is uploaded along with the tender.	It is requested to provide the shape file of the area for our ref.	Noted. The map is enclosed as Annexe-1.
15	Sec.6 Clause 6.4	The contractor shall be responsible for setting up their work facility with necessary hardware and software in Karnataka State. Data, storing and processing should be only done at the offices established by the bidder in Karnataka State. This facility shall be made available till the completion of the project.	Requested to consider setting up the work facility anywhere in India instead of restricting to Karnataka.	Not Agreed. Tender condition prevails.
16	Sec.6 Scope of Work Clause 6.6	• Providing GPS Control network for the town – 3 points for every 1 sq.km area • Control Survey - Two GCPs for every 3 sq. km.	These statements are contradictory. Requested to clarify.	Noted. The statement - Control Survey - Two GCPs for every 3 sq. km stands deleted.
17	Sec.6 Scope of Work Clause 6.6 Clearances for flying	Drones should have UAN and Type certified	Requested to consider the Drone with valid UINs other than mandatory criteria for Type Certification, as the PQ also refers to the requirement of UINs only.	Not Agreed. Tender condition prevails.

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18	Sec.6 Scope of Work Clause 6.6 Drone Data Acquisition	Bidders can propose any other technology or combination of technologies (like aerial /, terrestrial LIDAR / street view photography along with Drone data etc.) for the purpose of ground realistic texturized 3D Reality Mesh Model. However, the top view shall be from the acquired drone images only	Please confirm if Aircraft based aerial survey can be proposed as an alternate solution for Drone? Conducting field survey using Drones will be a different cost and combination of other technologies i.e., aerial, terrestrial LIDAR along with Drones will be another cost. Please clarify.	Not Agreed. Tender condition prevails.
19	Sec.6 Scope of Work Clause 6.6 Texturised 3D Reality Mesh Model from DSM point cloud and Photos	The textured 3D Reality Mesh models need to be delivered grid wise. All delivered 3D tiles shall have a buffer of 50 m additional to the given grid / tile boundaries so that visualisation across the borders is seamless. For the buffer areas also accurate data processing is to be carried out to cater to the boundary anomalies that may arise, later.	The textured 3D Reality Mesh models can be generated in different level of details and accordingly their data collection specifications and methods shall vary. It is requested to confirm the Level of Details (LoD) requirement.	LOD 2with textured model from drone survey images
20	Sec.6 Scope of Work Clause 6.6 Control Survey	Network RTK solution from SOI established CORS network is preferred. In the absence of CORS signals, static surveys and post processing shall be carried out.	Please elaborate the statement	Network RTK solution from SOI established CORS network is preferred. In the absence of CORS signals, static surveys and post processing using CORS Base stations shall be carried out.

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21	Sec.6 Scope of Work Clause 6.6 Drone Data Acquisition	360 degree image acquisition is required for the purpose of creating the texturized (as per ground reality) 3D Reality Mesh Model. i.e the objects on the ground should be visible / photographed from all directions without any shadow areas.	Capturing 360 deg. Images is for the specific building or the entire AOI	Entire AoI
22	Sec.6 Scope of Work Clause 6.8 Time Schedule	The project should be completed in 14 weeks	Considering the monsoon season it is requested for an extension of the project timeline to accommodate potential weather-related delays. The project duration is not sufficient to deliver the 3D model for 450 sq. km when most of areas in BDA in red zone, restriction for flying.	Not Agreed. Tender condition prevails. Any delays due to permission challenges and due to the reason beyond the control of BDA and bidder, BDA may consider to compensate such delay for project time period. Bidder should meticulously record the reasons for delay.
23	General		Please provide the KML for given scope of work	It is attached
24	Sec.1 Project Data Sheet Tender Schedule Sl.No.7(4)	Last date for submission of tender – 15.6.2024	Considering the complexity of scope of work it is requested to extend the last date at least by 10 days.	Not Agreed. Tender condition prevails.

Town Planner Member, BDA